## **AMENDMENTS**

## In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims**

- 1. 18. (Canceled)
- 19. (currently amended) A metal structure, comprising:
  - a semiconductor substrate with a conductor thereon;
- an insulating layer overlying the semiconductor substrate having a hole therein exposing the conductor;
- a conductive plug substantially filling the hole and electrically connecting the underlying conductor;
- a silicon carbon containing film carbon-doped silicon oxide or carbon and nitrogen-doped silicon oxide, serving as an etching stop layer, overlying the insulating layer and the conductive plug;
- a low dielectric constant layer overlying the silicon carbon-containing film carbon-doped silicon oxide or carbon and nitrogen-doped silicon oxide;
- a trench in the low dielectric constant layer and the silicon carbon containing film carbondoped silicon oxide or carbon and nitrogen-doped silicon oxide; and
- a copper or copper alloy conductor substantially filling the trench, electrically connecting the conductive plug.

- 20. (original) The structure as claimed in claim 19, wherein the conductive plug comprises tungsten.
- 21. (original) The structure as claimed in claim 19, wherein the conductor comprises metal silicide.
- 22. (original) The structure as claimed in claim 19, wherein the semiconductor substrate comprises silicon germanium.
- 23. (original) The structure as claimed in claim 19, wherein the conductor is composed of doped semiconductor, polysilicon, metal, metal compound or a combination thereof.
- 24. (original) The structure as claimed in claim 19, wherein the insulating layer comprises undoped silicate glass (USG).
- 25. (currently amended) The structure as claimed in claim 19, wherein the thickness of the silicon carbon-containing film carbon-doped silicon oxide or carbon and nitrogen-doped silicon oxide is less than 500 Å.
- 26. (canceled)
- 27. (currently amended) The structure as claimed in claim 19, wherein the carbon content of the silicon earbon containing film carbon-doped silicon oxide or carbon and nitrogen-doped silicon oxide exceeds 20%.

- 28. (original) The structure as claimed in claim 19, wherein the dielectric constant (k) of the low dielectric constant layer is less than 3.0.
- 29. (original) The structure as claimed in claim 19, wherein the low dielectric constant layer is formed by chemical vapor deposition (CVD) and/or Spin-On method.
- 30. (original) The structure as claimed in claim 19, wherein the low dielectric constant layer comprises inorganic film and/or organic film.
- 31. (currently amended) The structure as claimed in claim 19, wherein the width of the hole is having a width of less than 950Å.
- 32. (currently amended) The structure as claimed in claim 19, wherein the width of the trench is having a width of less than 1300Å.
- 33. (currently amended) The structure as claimed in claim 19, wherein the <del>lining layer</del> structure further comprises a Ta and/or TaN <u>lining layer</u>.
- 34. ( currently amended ) A metal structure, comprising:
  - a semiconductor substrate with a conductor comprising nickel silicide thereon;
- an insulating layer overlying the semiconductor substrate having a hole therein exposing the conductor;
- a conductive plug substantially filling the hole and electrically connecting the underlying conductor;

a silicon carbon containing film carbon-doped silicon oxide or carbon and nitrogen-doped silicon oxide, serving as an etching stop layer, overlying the insulating layer and the conductive plug;

a low dielectric constant layer overlying the silicon carbon-containing film carbon-doped silicon oxide or carbon and nitrogen-doped silicon oxide;

a trench in the low dielectric constant layer and the silicon carbon-containing film carbon-doped silicon oxide or carbon and nitrogen-doped silicon oxide; and

a copper or copper alloy conductor substantially filling the trench, electrically connecting the conductive plug.

- 35. (original) The structure as claimed in claim 34, wherein the conductive plug comprises tungsten.
- 36. (currently amended) The structure as claimed in claim 34, wherein the thickness of the silicon carbon containing film carbon-doped silicon oxide or carbon and nitrogen-doped silicon oxide is less than 500 Å.
- 37. (currently amended) The structure as claimed in claim 34, wherein the carbon content of the silicon carbon containing film carbon-doped silicon oxide or carbon and nitrogen-doped silicon oxide exceeds 20%.
- 38. (original) The structure as claimed in claim 34, wherein the dielectric constant (k) of the low dielectric constant layer is less than 3.0.

- 39. (currently amended) The structure as claimed in claim 34, wherein the width of the hole is having a width of less than 950Å.
- 40. (currently amended) The structure as claimed in claim 34, wherein the width of the trench is having a width of less than 1300Å.
- 41. (original) The structure as claimed in claim 34, wherein the lining layer comprises Ta and/or TaN.